

Substitute for form 1449A/PTO  
(Modified)

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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## Complete if Known

Application Number	10/081,936
Filing Date	February 20, 2002
First Named Inventor	KAYYEM, Jon Faiz
Art Unit	1631
Examiner Name	MARSCHER, Ardin H.
Attorney Docket Number	A-63761-7 (463037-00048)

Sheet 1 of 4

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1 *	4,755,458	07-05-1988	Rabbani et al.	
	A2	4,840,893	06-20-1989	Hill et al.	
	A3 *	4,868,103	09-19-1989	Stavrianopoulos et al.	
	A4 *	4,945,045	07-31-1990	Forrest et al.	
	A5 *	4,964,972	10-23-1990	Sagiv et al.	
	A6 *	4,994,373	02-19-1991	Stavrianopoulos et al.	
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
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Sheet **2** of **4**

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	A33 *	6,200,761 B1	03-13-2001	Meade et al.	
	A34	6,221,583 B1	04-23-2001	Kayyem et al.	
	A35 *	6,238,870 B1	05-29-2001	Meade et al.	
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	A44	2004/0101890 A1	05-27-2004	Meade et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
EW	B1	EP 0 142 301 A2 ✓	05-22-1985	Serono Diagnostics Limited		
	B2 *	EP 0 234 938 A2	02-26-1987	Cranfield Institute of Technology		
	B3	EP 0 339 821 A1 ✓	11-02-1989	United Kingdom Atomic Energy Authority		
	B4	EP 0 439 036 A2 ✓	07-31-1991	Hoffman La Roche		
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	B7 *	EP 0 668 502 A2	08-23-1995	Yissum Research Development		
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	B10 *	WO 90/05732 A1	05-31-1990	The Trustees of Columbia University in the City of New York		
	B11	WO 92/10757 A1 ✓	06-25-1992	Boehringer Mannheim GmbH		
	B12	WO 93/22678 A2/A3 ✓	11-11-1993	Massachusetts Institute of Technology		
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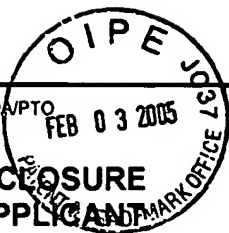
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[Signature]	B14 *	WO 94/22889 A1	10-13-1994	Cis Bio International		
	B15 *	WO 95/15971 A2/A3	06-15-1995	California Institute of Technology		
	B16 *	WO 96/06946 A1	03-07-1996	Igen, Inc.		
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	B19	WO 97/46568 A1	12-11-1997	California Institute of Technology		
	B20	WO 98/20162 A2/A3	05-14-1998	Clinical Micro Sensors, Inc.		
	B21 *	WO 98/57159 A1	12-17-1998	Clinical Micro Sensors, Inc.		

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
[Signature]	C1 *	AIZAWA, M., et al., "Integrated molecular systems for biosensors," <i>Sens. Actuators B Chem.</i> 24(1&3):1-5 (Mar. 1995).	
	C2	ARKIN, M., et al., "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorg. Biochem. Abstr.</i> , 6th Int. Conf. Bioinorg. Chem. 51(1&2):526 (1993).	
	C3	ARKIN, M., et al., "Rates of DNA-Mediated Electron Transfer Between Metallointercalators," <i>Science</i> 273(5274):475-480 (Jul. 1996).	
	C4 *	BAIN, C., et al., "Formation of monolayers by the coadsorption of thiols on gold: variation in the length of the alkyl chain," <i>J. Am. Chem. Soc.</i> 111(18):7164-7175 (Aug. 1989).	
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	C6 *	BRUN, A., et al., "Photochemistry of intercalated quaternary diazaaromatic salts," <i>J. Am. Chem. Soc.</i> 113(21):8153-8159 (Oct. 1991).	
	C7	CHENG, J., et al., "Selectivity and sensitivity of self-assembled thioctic acid electrodes," <i>Anal. Chem.</i> 64(17):1998-1999 (Sep. 1992).	
	C8 *	CHIDSEY, C., et al., "Coadsorption of ferrocene-terminated and unsubstituted alkanethiols on gold: electroactive self-assembled monolayers," <i>J. Am. Chem. Soc.</i> 112(11):4301-4306 (32994).	
	C9 *	DEGANI, Y., et al., "Direct electrical communication between chemically modified enzymes and metal electrodes: 2. Methods for bonding electron-transfer relays to glucose oxidase and D-amino-acid oxidase," <i>J. Am. Chem. Soc.</i> 110(8):2615-2620 (Apr. 1988).	
	C10 *	DEGANI, Y., et al., "Direct electrical communication between chemically modified enzymes and metal electrodes. 1. Electron transfer from glucose oxidase to metal electrodes via electron relays, bound covalently to the enzyme," <i>J. Phys. Chem.</i> 91(6):1285-1288 (Mar. 1987).	

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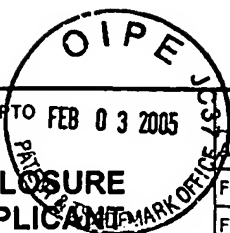
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EW	C11	DEGANI, Y., et al., "Electrical communication between redox centers of glucose oxidase and electrodes via electrostatically and covalently bound redox polymers," <i>J. Am. Chem. Soc.</i> 111(7):2357-2358 (Mar. 1989).		
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	C23	TURRO, N., et al., "Molecular recognition and chemistry in restricted reaction spaces. Photophysics and photoinduced electron transfer on the surfaces of micelles, dendrimers, and DNA," <i>Acc. Chem. Res.</i> 24:332-340 (1991).		
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	C25	UOSAKI, K., et al., "A self-assembled monolayer of ferrocenylalkane thiols on gold as an electron mediator for the reduction of Fe(III)-EDTA in solution," <i>Electrochem. Acta</i> 36(11/12):1799-1801 (1991).		
	C26	WEBER, K., et al., "Voltammetry or redox-active groups irreversibly adsorbed onto electrodes. Treatment using the Marcus relation between rate and overpotential," <i>Anal. Chem.</i> 66(19):3164-3172 (Oct. 1994).		
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